



इरकॉन इंटरनेशनल लिमिटेड
(भारत सरकार का उपक्रम)
छत्तीसगढ़ रेलपरियोजना



IRCON INTERNATIONAL LIMITED
(A Govt. of India Undertaking)
An Integrated Engineering and Construction Company
CHHATISGARH RAIL PROJECT

No. IRCON/ELECT/2059/CGRP.EC.EXECU/spur-2/LOA/14693

Date :27.07.2023

M/s SRC Company Infra Private Limited
704, 7th floor 'A' Block,
The Platina building, beside Radisson Hotel
Gachibowli, Hyderabad-500032
Email: business@srccompany.in

LETTER OF ACCEPTANCE

Sub.: Design, Supply, Erection, Testing & Commissioning of 25 KV, 50 Hz, Single Phase, OHE Traction System of Bhalumuda- Gare Pelma Spur-2 section and associated works in Connection with New BG Electrified Rail Corridor in the State of Chhattisgarh Over South East Central Railway- **Letter of Acceptance (LOA).**

Ref.: 1.e-tender No: IRCON/2059C/CGRP/e-Tender/23-24/spur-2/EL-01 dated 25.04.2023.
2. Corrigendum-01 dated. 10.05.2023
3. Corrigendum-02 dated 12.05.2023
4. Technical bid opened on 16.05.2023 & Price bid opened on 30.05.2023.
5. Your Negotiated offer letter No: SRC/CGRP/IRCON/23-24/003 dated 07.07.2023

Dear Sir,

With reference to above, this is to inform you that your negotiated offer for the subject work has been accepted by the competent authority for a total contract value of Rs. **13,68,59,211/-** (Rupees Thirteen Crore, Sixty Eight Lakhs Fifty Nine Thousand Two Hundred Eleven Only) (i.e., **12.5% above** the tender value of Rs.12,16,52,632) as per the detailed bill of quantities (BOQ) enclosed as Annexure-A, **which is inclusive of all taxes, duties, GST etc.** on following terms and conditions :

1. The entire work shall be completed within a period of **09 months** including monsoon period from the date of issue of this LOA. Date of issue of LOA shall be considered as the commencement date of this contract.
2. The quoted rates are inclusive of all taxes, duties GST etc. Nothing extra will be paid on this account.
3. The contractor shall submit Performance Security within **21 (Twenty one) days** from date of issue of LOA, as per GCC clause No 8.1 and SCC clause 31.1, equal to 5% of contract value i.e. for an amount of **Rs.68,42,961/-** (Rupees Sixty Eight Lakhs Forty Two Thousand Nine Hundred Sixty One Only) valid initially up to stipulated date of completion plus 60 days beyond that, in the form as detailed in GCC Clause No 8.1.
4. Retention Money shall be recovered from on account/final bills as per GCC clause No 8.2 and SCC clause 31.2. i.e from on account/final bills of the contractor @10% of gross value of each bill after adjusting EMD amount till the amount so recovered including EMD amount adds upto 5% of the contract value of the work. No interest shall be payable on retention money.
5. The contractor shall enter into and execute the Contract agreement as per Annexure-I of GCC within 28 days of issue of LOA i.e., up to **23.08.2023** as per GCC clause 12.5 and SCC clause no.32.0 The stamp paper of requisite value as per the prevailing laws shall be provided by the contractor at his own cost.

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**प्रथम तल, नार्थ एवेन्यू, तखतपुर रोड,
उसलापुर बिलासपुर (छ.ग.) 495001**
1st Floor, North Avenue, Takhatpur Road
Uslapur, Bilaspur-495001 Fax: 07752-261959

रजि कार्यालय : सी. - 4 डिस्ट्रिक्ट सेंटर, साकेत, नई दिल्ली-110017 भारत
Regd. Office : C-4, District Center Saket, New Delhi-110017 INDIA
Tel. : +91-1129565666 Fax: 91-11-26854000, 26522000
E-mail : info@ircon.org web. : www.ircon.org



CIN-L45203DL1976GOI008171

6. You will be fully responsible for all manpower and machines deployed by you. IRCON will not be responsible for any violation or mishap on any ground. Further you will strictly comply with all relevant Labour laws (vis PF,ESI, etc.), Bylaws, Labour licence,IR Shramik Kalyan, rules, regulations etc., as applicable as per laws of land.
7. The payments are subject to deduction of necessary tax as applicable by laws and shall be made by NEFT/RTGS.
8. You will strictly comply & pay GST on due date for availing of input tax credit by IRCON.
9. The insurance Cover is to be submitted before commencement of the work in the joint name of parties as mentioned in SCC clause 35.0 & 36.0.
10. All other terms and conditions contained in the e-tender document No. IRCON/2059C/CGRP/e-Tender/23-24/spur-2/EL-01dated 25.04.2023along with corrigendum(s) shall form part and parcel of the contract.
11. This letter of acceptance is being sent in duplicate. One copy may please be signed, stamped and returned to this office in token of unconditional acceptance by you.
12. The letter will constitute a legal binding contract between Ircon International Limited and the contractor till such time till the formal contract agreement is signed.
13. You are requested to contact Project Director & Project Head, Ircon International Limited, 1stFloor, North Avenue, Takhatpur Road, Bilaspur, Chhattisgarh-495001for further instructions for execution of the work under this contract.

Please acknowledge receipt.

Thanking You,

Encl: Bill of Quantity (BOQ) as **Annexure-‘A’**

For & On behalf of
Ircon International Limited

**SURENDER
SINGH**

(Surender Singh)
Project Director/CGRP

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Copy to: -

1. CEO/CERL, COO/CERL & CFO/CERL Raipur for kind information
2. CGM/Elect/CO for information
3. AGM/Fin., Bilaspur for information
4. JGM/E/KHS & DGM/Elect/BSP for information.
5. DGM/Elect/Raigarh for information and necessary action
6. Tender Cell/Ircon/Bilaspur for information

Annexure-'A'					
Summary Sheet for Bill of Quantity					
Name of Work- DESIGN, SUPPLY, ERECTION, TESTING & COMMISSIONING OF 25 KV, 50HZ, SINGLE PHASE, OHE TRACTION SYSTEM OF BHALUMUDA – GARE PELMA SPUR-2 SECTION AND ASSOCIATED WORKS IN CONNECTION WITH NEW BG ELECTRIFIED RAIL CORRIDOR IN THE STATE OF CHHATTISGARH OVER SOUTH EAST CENTRAL RAILWAY (16 RKM/24 TKM)					
Sr. No.	Schedule	Description of work	Estimated cost in Rs	Rate Quoted by L-1 bidder	Total Quoted amount in Rs. (Incl. GST)
1	OHE-1 to OHE-60 & GS-1 to GS-5	OHE and GS work	12,16,52,632/-	12.5% above	13,68,59,211/-
Total Quoted Amount in words (Inclusive of all taxes, duties, GST etc.)			Rupees Thirteen Crore, Sixty Eight Lakhs Fifty Nine Thousand Two Hundred Eleven only		

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PD/CGRP/ Bilaspur

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Bill of Quantities (BOQ)- DESIGN, SUPPLY, ERECTION, TESTING & COMMISSIONING OF 25 KV, 50HZ, SINGLE PHASE, OHE TRACTION SYSTEM OF BHALUMUDA – GARE PELMA SPUR-2 SECTION AND ASSOCIATED WORKS IN CONNECTION WITH NEW BG ELECTRIFIED RAIL CORRIDOR IN THE STATE OF CHHATTISGARH OVER SOUTH EAST CENTRAL RAILWAY (16 RKM/24 TKM)										
Sr. No.	SOR item	Description	Unit	Qty Supply	Qty Erection	Supply Rate	Erection Rate	Total Supply Amount	Total Erection Amount	Total
	1	2	3	4	5	6	7	8= 4x6	9=5x7	10= 8+9
	OHE General									
1	OHE-1	Preparation of drawings as well of site survey and submission of desired drawings for Overhead Equipment, Switching Stations,Sectioning diagram, Power supply diagram, Schematic diagram of Switching Statons, Traction working rule diagram and Instructions etc. required for commissioning including preperation and submission of EIG documents								
2	OHE-1 (a)	Submission of all Initial drawings/ Good for construction drawings for OHE	TKM	24	24	1318	19939	31,632	478,536	510,168
3	OHE-1 (b)	Submission of all As Erected drawings for OHE	TKM	24	24	566	8544	13,584	205,056	218,640
4	OHE-1 (c)	Submission of all Initial drawings/ Good for construction switching posts drawings	Job	1	1	0	24267	0	24,267	24,267
5	OHE-1 (d)	Submission of all As Erected switching post drawings	Job	1	1	0	10401	0	10,401	10,401

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6	OHE-2	Supply and Erection of Span wire (130 sq.mm) including mounting arrangements with 9-Ton insulators.	Mtr	1000	1000	842	77	842,000	77,000	919,000
7	OHE-3	Supply and Erection of materials for Termination of single conductor of overhead equipment or a terminating wire with 9-Ton insulators:	Each	5	5	11257	1155	56,285	5,775	62,060
8	OHE-4	Supply and Erection of materials for Termination of all aluminum 25 KV feeder conductor single (spider) including feeder wire with 9-Ton insulators:	Mtr	1500	1500	560	252	840,000	378,000	1,218,000
9	OHE-5	Supply and Erection of material for Termination of copper cross feeder with gantries including cross feeder wire with 9-Ton insulators:	Set	2	2	47691	1353	95,382	2,706	98,088
10	OHE-6	Supply and erection of terminal boards in control cubicles for SP/SSP	No.	0	0	11475	577	0	0	0
11	OHE-7	Supply and Erection of iron clad 240V AC or 110V D.C. board with fuse box in control cubicles,	Set	0	0	7606	263	0	0	0
12	OHE-8	Supply and Erection of Maintenance Free Batteries 110V, 40 AH with Battery Chargers:	Set	0	0	272974	10846	0	0	0

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13	OHE-9 (a)	Supply, Erection, Oil Filtration, Testing and Commissioning of 25 KV/240 Volt, 10 KVA, LT supply transformer with 25 KV D. O. fuse switch, antilimbing device, insulator, copper jumper and earth electrode etc:	Set	2	2	207318	14875	414,636	29,750	444,386
14	OHE-9 (b)	Supply, Erection, Oil Filtration, Testing and Commissioning of 25 KV/240 Volt, 25 KVA, LT supply transformer with 25 KV D. O. fuse switch, antilimbing device, insulator , copper jumper and earth electrode etc:	Set	1	1	269632	14875	269,632	14,875	284,507
15	OHE-10	Modification to existing OHE i.e. Transfer of equipment from one mast or support to another, provision of additional bracket assembly/ assemblies on a mast or support, re-adjustment of a head-span, dismantling of Overhead Equipment, dismantling of feeder	Mtr	500	500	0	48	0	24,000	24,000
16	OHE-11	Manning of switching station i.e. SP/SSP/TSS	month X location	12	12	48441	0	581,292	0	581,292
17	OHE-12	Electrification of switching station building as per specification	Each	0	0	0	46418	0	0	0
18	OHE-13 (a)	Supply & Erection of Earthing arrangement at switching station i. e. earth electrodes, earth bus, 50x6 mm MS flat, 8 SWG GI wire etc. to achieve IR value for energisation	job	0	0	19979	10611	0	0	0

19	OHE-13 (b)	Excavation of Earth to the specified depth below the ground level and to bury 13 meters long rail (or suitable length mast) alongwith supply of rails/ masts & all accessories	each	1	1	42478	2631	42,478	2,631	45,109
20	OHE-14	Loading/ Unloading and transportation of all type of steel structures, portals, TTC, copper/ aluminium conductores and SPS etc. other than contractor material.	MTK M	0	3000	0	81	0	243,000	243,000
		Sub Total of (A)						3,186,921	1,495,997	4,682,918
(B)		Building Works								
21	OHE-15	Construction of Switching Station building, RCC work, plastering, brick masonry, retaining wall, filling, compacting and leveling work etc. and supply and erection of name board of switching station.	Each	0	0	594384	0	0	0	0
22	OHE-16	Supply and spreading of gravel/ ballast in the switch yard.	Cum	10	10	1240	10	12,400	100	12,500
23	OHE-17 (a)	Earth work involved in filling of earth in any excavation or low lying area (including compaction)	Cum	100	100	623	0	62,300	0	62,300
24	OHE-17 (b)	Boulder pitching on the slopes at locations of OHE structures/ switching posts	Cum	100	100	0	2716	0	271,600	271,600
		Sub Total of (B)						74,700	271,700	346,400
(C)		Other OHE Items								

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25	OHE-18	Supply and Erection of material for termination of double Overhead Equipment conductor with insulators:	Each	60	60	16293	1589	977,580	95,340	1,072,920
26	OHE-19	Supply and erection of section insulator assembly with insulators and associated fittings & fasteners for OH with Bar Insulator	Each	10	10	104607	7686	1,046,070	76,860	1,122,930
27	OHE-20	Supply and Erection of PTFE type short neutral section assembly:.	Each	0	0	1234492	7883	0	0	0
28	OHE-21	Supply and Erection of 25 KV, S.P Isolators 1600 Amps with insulator & with/ without earth contact assembly:	Each	7	7	107861	7950	755,027	55,650	810,677
29	OHE-22	Supply and Erection of 25 KV double pole isolator with insulator & with/without earth contact assembly:	Each	2	2	167680	8707	335,360	17,414	352,774
30	OHE-23	Supply and Erection of suitable length of contact wire in the span under any overline structure; complete with supply and erection of end fittings, jumpers, PG clamps etc (however payment of contact wire shall be made under differenr BOQ item meant for it)	Each	7	7	3018	4099	21,126	28,693	49,819
31	OHE-24	Supply and erection of large copper jumper (160 sqmm) between aluminium bus/ OHE and cross feeder with all associated fittings and materials required for same.	Each	20	20	12085	580	241,700	11,600	253,300

32	OHE-25	Supply and Erection of all types of connectors for aluminium / copper bus bar required for commissioning of switching stations with fasteners.	Each	10	10	6619	100	66,190	1,000	67,190
33	OHE-26	Supply and Erection of safety items i.e. Fire extinguishers, set of fire bucket with stand and first aid box, key box with suitable key chain, locks and other misc items required for commissioning of Switching Stations.	Set	0	0	17586	3255	0	0	0
34	OHE-27	Supply and Erection of 25 KV AC OHE danger board / danger board for height gauge, public / staff caution board, Shock treatment charts at station buildings & SP/SSP etc. required for commissioning of OHE/SWSs.	Each	50	50	0	1722	0	86,100	86,100
35	OHE-28	Supply and erection of 25kv 1600 Amps vacuum Interruptor	Each	1	1	470194	15375	470,194	15,375	485,569
36	OHE-29	Supply erection testing & commissioning of 25kv 2000 Amps single pole vacuumCircuit breaker with interlocking	Each	1	1	409049	5546	409,049	5,546	414,595
37	OHE-30	Supply, Erection, testing & commissioning of Control and Relay Panel for One CB as per RDSO spec. No. TI/PSI/PROTCT/6071 (for one CB)	Each	1	1	2345120	83949	2,345,120	83,949	2,429,069
38	OHE-31 (a)	Supply and erection of 25 KV Potential Trasformer Type-I or Type-II	Each	2	2	90471	878	180,942	1,756	182,698
39	OHE-31 (b)	Supply & erection of 25kV Current Transformer (1500-750/5A)	Each	1	1	74279	730	74,279	730	75,009

40	OHE-32	Supply and erection of 42 KV Lightning Arrestor complete with its disconnector assembly	Each	2	2	60655	2432	121,310	4,864	126,174
41	OHE-33	Supply and installation of cables for all SWS	Mtr	250	250	244	21	61,000	5,250	66,250
42	OHE-34	Supply and erection of Aluminium Jumper with Fastners and fittings	Each	4	4	2736	323	10,944	1,292	12,236
43	OHE-35	Supply and erection of Aluminium Bus Bar 36mm x 28mm	Mtr.	25	25	400	62	10,000	1,550	11,550
44	OHE-36	Supply and erection of anti-theft transformer 240 V/2.2. KV, 5 KVA with DO fuse switch. Excavation o cable trench, laying of cables, earthing,jumpering, DG set including dismantling of above equipments	each	0	0	88285	68618	0	0	0
		Sub Total of (C)						7,125,891	492,969	7,618,860
(D)		Insulators								
45	OHE-37	Supply of stay arm Porcelain insulator (CD-1050 mm)	Each	410	580	3669	0	1,504,290	0	1,504,290
46	OHE-38	Supply of bracket Porcelain insulator (CD-1050 mm)	Each	410	580	3625	0	1,486,250	0	1,486,250
47	OHE-39	Supply & Erection of 25 kV Support insulator with Fittings and Fasteners	Each	20	20	3962	158	79,240	3,160	82,400
		Sub Total of (D)						3,069,780	3,160	3,072,940
(E)		OHE Non Ferrous								

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48	OHE-40	Supply and Erection of anti-creep wire using catenary wire (with supply of insulators, anticreep wire shall be paid separately).	Each	15	15	7753	4465	116,295	66,975	183,270
49	OHE-41	Supply and Erection of Over Head Equipment i.e. contact & catenary wire (excluding cost of supply of contact, catenary & Jumper wires) jumper wire, dropper wire, contact / catenary clips, fasteners and all other material required at turn out/ overlaps / diamond crossing. Final checking of OHE and adjustment, inspection to be done by Tower Wagon for commissioning of Conventional OHE.	TKM	24	24	0	70751	0	1,698,024	1,698,024
50	OHE-42	Supply of contact wire (HDGCC 107 Sq.mm) only	MT	23	0	1093929		25,160,367	0	25,160,367
51	OHE-43	Supply of cadmium copper catenary wire (65 Sq. mm) and all jumper wires	MT	19	0	1093282		20,772,358	0	20,772,358
52	OHE-44	Supply and erection of Copper Strips for equipment earthing	Mtr	50	50	1652	195	82,600	9,750	92,350
53	OHE-45	Supply and erection of all types of copper Jumpers 50sq mm.	Each	350	350	9389	580	3,286,150	203,000	3,489,150
		Sub Total of (E)						49,417,770	1,977,749	51,395,519
(F)		Concreting work								
54	OHE-46	Supply and erection of Concrete for Foundation and Plinth, in all types of soil/soft rock	CUM	1680	1680	5159	1994	8,667,120	3,349,920	12,017,040

55	OHE-47	Supply and erection of Concrete for Foundation and Plinth in extra hard rock requiring use of rock breaker including breaking of existing foundation and recast	CUM	480	480	5616	5455	2,695,680	2,618,400	5,314,080
56	OHE-48	Supply and erection of Concrete for Foundation and Plinth for Reinforced Concrete.	CUM	240	240	0	9177	0	2,202,480	2,202,480
		Sub Total of (F)						11,362,800	8,170,800	19,533,600
(G)		OHE Ferrous Items								
57	OHE-49	Supply and Erection of a guy rod assembly:	Each	100	100	11744	855	1,174,400	85,500	1,259,900
58	OHE-50	Supply and Erection of protective screen on FOBs/ ROB:	Each	30	30	34504	0	1,035,120	0	1,035,120
59	OHE-51	Supply and Erection of bracket assembly without insulators as per OHE plan:	Each	240	580	21630	1456	5,191,200	844,480	6,035,680
60	OHE-52	Supply and Erection of regulating equipment (modifie 3 pulley type) with counter weight assembly for conventional OHE:	Each	55	55	103532	3471	5,694,260	190,905	5,885,165
61	OHE-53 (a)	Supply and erection of a structure bond/ Longitudinal bond/ Transverse and Special bond	TKM	24	24	27292	9732	655,008	233,568	888,576
62	OHE-53 (b)	Supply and erection of Single earth electrode 3 mtr with connection to nearest traction rail/structure	Each	5	5	2538	1057	12,690	5,285	17,975
63	OHE-54	Supply and erection of all types of galvanized steel structures, small parts steel etc.	MT	100	250	134381	8227	13,438,100	2,056,750	15,494,850

64	OHE-55	Supply and erection of fencing panels, Uprights, Gate and anti climbing device for SWS	Mtr	100	100	3956	131	395,600	13,100	408,700
65	OHE-56	Supply and erection of M-27 x 500 mm Hilty AM8.8 rod and core cutting of 32 mm dia into 400 mm depth an grouting with Hilty RE-500	Each	10	10	0	16157	0	161,570	161,570
66	OHE-57	Supply and erection of M-16 x 300mm Hilty V anchor and core cutting of 20 mm dia into 200mm depth and grouting with Hilty RE-500	Each	10	10	0	7467	0	74,670	74,670
67	OHE-58	Breaking and removal of concrete from already casted foundation with hand held rock breaker.	Cum	0	10	0	8378	0	83,780	83,780
		Sub Total of (G)						27,596,378	3,749,608	31,345,986
(H)	Items	OHE Misc modification/dismantling								
68	OHE-59	OHE Miscellaneous Modification/dismantling of existing OHE as per individual rates mentioned below (Item 59(a) to 59(r))	LS					25,000	175,000	200,000
69	OHE-59 (a)	Slewing and reslewing of OHE	span			0	8098			
70	OHE-59 (b)	Splicing and extension of OHE	No.			3671	5339			
71	OHE-59 (c)	Adjustment of existing OHE & TW checking	span			0	715			
72	OHE-59(d)	Dismantling of OHE	km			0	30556			

73	OHE-59(e)	Dismantling of mast/ structure upright (by cutting)	Nos.				0	2858			
74	OHE-59 (f)	Dismantling of cantilever	Nos.				0	715			
75	OHE-59 (g)	Dismantling of feeder / return conductor	mtr				0	78			
76	OHE-59 (h)	Dismantling of section insulator	Nos.				0	3239			
77	OHE-59 (i)	Dismantling of SP/DP isolator	Nos.				0	2360			
78	OHE-59 (j)	Dismantling of portal boom pieces	Nos.				0	14591			
79	OHE-59 (k)	Dismantling of TTC boom	Nos.				0	5300			
80	OHE-59 (l)	Dismantling of Guy Rod	Nos.				0	726			
81	OHE-59 (m)	Dismantling of Anti-creep	set				0	4666			
82	OHE-59 (n)	Dismantling of Regulating Equipment with counter weight assembly	Nos.				0	2995			
83	OHE-59 (o)	Dismantling of post insulator	Nos.				0	517			
84	OHE-59 (p)	Dismantling of AT	Nos.				0	12035			
85	OHE-59 (q)	Dismantling of caution board	Nos.				0	86			
86	OHE-59 (r)	Dismantling of SPS	MT				0	6805			

87	OHE-60	Execution(Erection/dismantling) under power block @100% extra of erection/dismantling rate	LS															100,000	100,000
			Sub Total of (H)															275,000	300,000
(I)		Misc. Electrical General Work																	
88	GS-1	Supply, Installation, testing and commissioning of cubical type mast mounted, dust & vermin proof, LT control switch board of 14 SWG CRCA sheet comprising conforming to IS:8623 (latest version), complete with stud type incoming and outgoing terminals suitable for 70 sq mm cable & hinged door & panel lock etc.																	
89	GS-1 (i)	a) with TPN MCCB 63A, 35KA, Fixed type (Ics=100% Icu) - 1 no b) Copper busbars 200A (for 10 KVA AT)	Nos.	2	2	11855	3292	23,710	6,584									30,294	
90	GS-1(ii)	a) with TPN MCCB 150A, 35KA, Fixed type (Ics=100% Icu) - 1 nob) Copper busbars 300A (for 25 KVA AT)	Nos.	1	1	14084	3912	14,084	3,912									17,996	
91	GS-2	Supply and erection of GI Pipe - class "B" ISI marked with accessories including bends etc. for support of cable with erected pole/recessing in wall/floor/ passing earth strip or passing cable as required:																	
92	GS-2(i)	32 mm dia	Meter	12	12	201	37	2,412	444									2,856	

93	GS-2(ii)	40 mm dia	Meter	90	90	239	41	21,510	3,690	25,200
94	GS-2(iii)	50 mm dia	Meter	12	12	310	55	3,720	660	4,380
95	GS-3	Supply, erection, testing & commissioning of auto change-over type control and distribution panel for colour light signalling supply in 25KV AC traction system as per RDSO technical specifications No.TI/SPC/PSI/CLS/0023 including latest amendment.								
96	GS-3(i)	For-10 KVA AT	Nos.	2	2	55312	9833	110,624	19,666	130,290
97	GS-3(ii)	For25 KVA AT	Nos.	1	1	117685	20918	117,685	20,918	138,603
98	GS-4	Supply, laying 1.1KV grade LT XLPE insulator armoured, aluminium conductor cable, making good the damages, end terminations with aluminium crimping socket/lugs, provision of cable route markers, testing and commissioning etc. as required as per Technical specifications:								
99	GS-4(i)	2 Crore 16 Sq. mm.	Meter	100	100	214	55	21,400	5,500	26,900
100	GS-4(ii)	2 Crore 70 Sq. mm.	Meter	3000	3000	423	76	1,269,000	228,000	1,497,000

